

CLAIMS

What is claimed is:

1. A refrigerant system operating as a heat pump comprising:
a compressor connected to first and second heat exchangers; and
an expansion device connected between said first and second heat exchangers said expansion device including a flow resistance device arranged between first and second fluid passages and in fixed relationship thereto, said flow resistance device providing a first fluid resistance with said fluid flowing in a first direction and a second fluid resistance greater than said first resistance with said fluid flowing in a second opposite direction.
2. The heat pump according to claim 1, comprising a four way reversing valve movable between heating and cooling positions respectively providing fluid flow in said first and second directions.
3. The heat pump according to claim 1, wherein said flow resistance device includes a body having a first and second side of different geometry.
4. The heat pump according to claim 3, wherein said second side included a barbed-like face.
5. The heat pump according to claim 3, wherein said second side is a an open face hemisphere.

6. The heat pump according to claim 3, wherein said flow resistance device is a C-shaped channel with said second side provided by an open face.
7. The heat pump according to claim 1, wherein said flow resistance device is a bypass angled fluid passage.